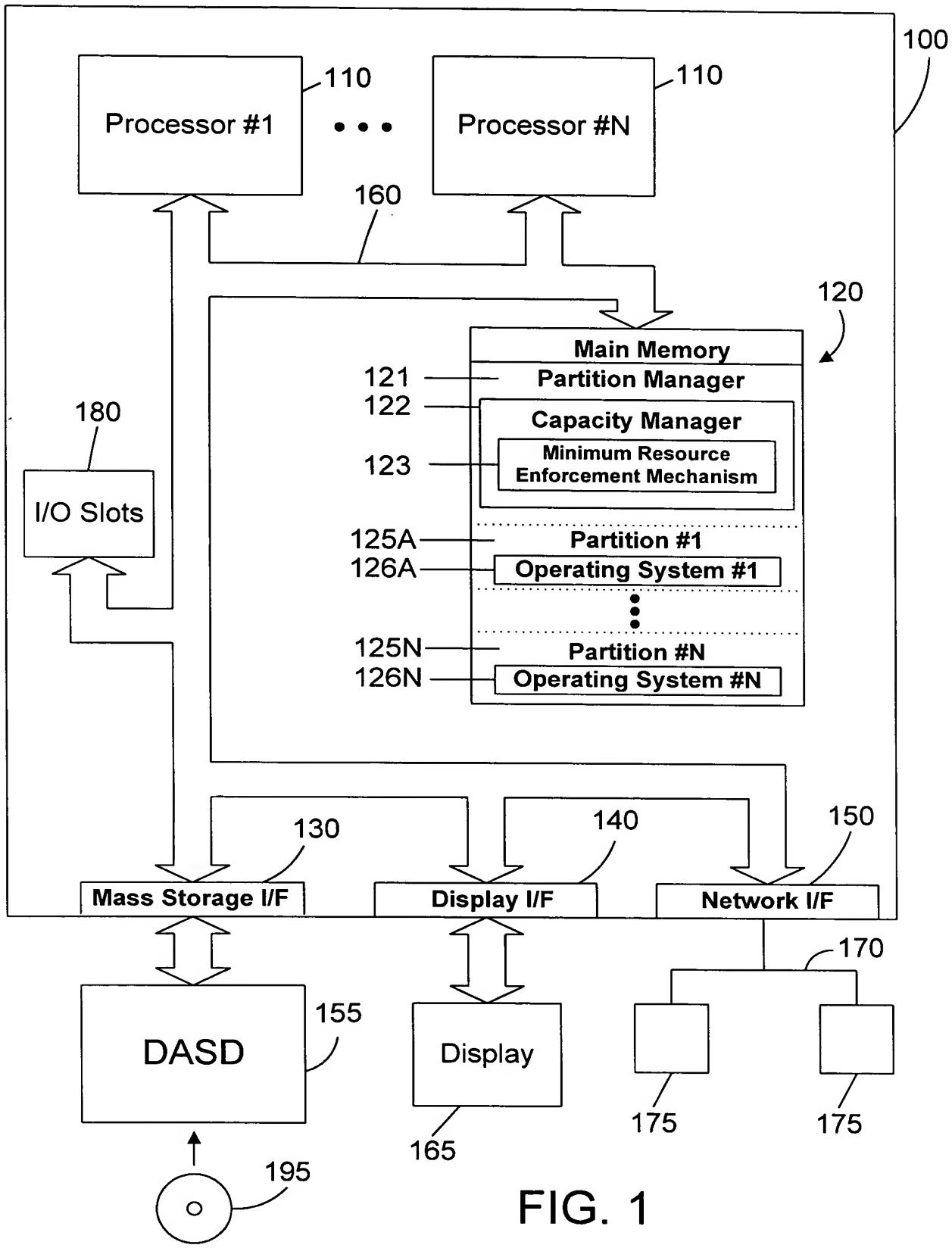
100
Processor #1
110
Processor #N
110
160
120
Main Memory
121
Partition Manager
122
Capacity Manager
123
Minimum Resource Enforcement Mechanism
180
I/O Slots
125A
Partition #1
126A
Operating System #1
125N
Partition #N
126N
Operating System #N
130
140
150
Mass Storage I/F
Display I/F
Network I/F
170
DASD
155
Display
165
175
175
195

FIG. 1

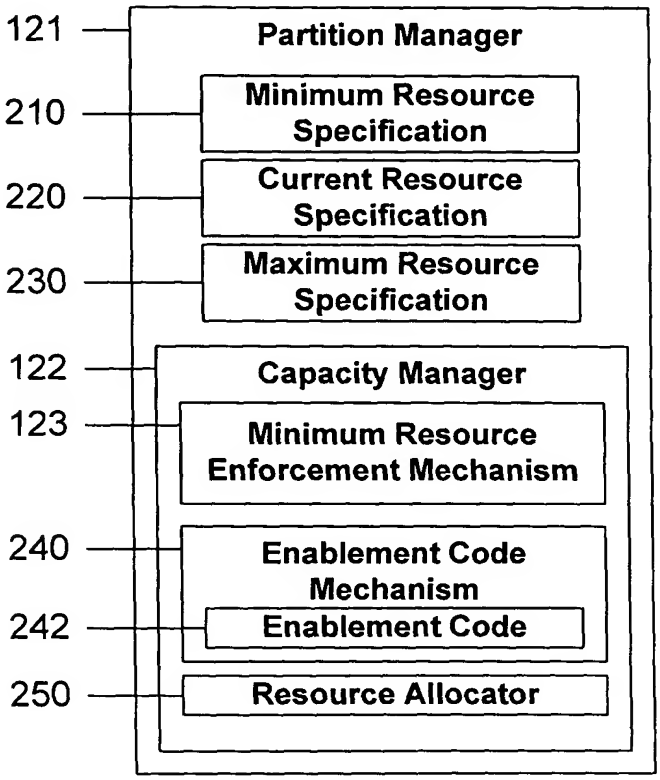
121
Partition Manager
210
Minimum Resource Specification
220
Current Resource Specification
230
Maximum Resource Specification
122
Capacity Manager
123
Minimum Resource Enforcement Mechanism
240
Enablement Code Mechanism
242
Enablement Code
250
Resource Allocator

FIG. 2

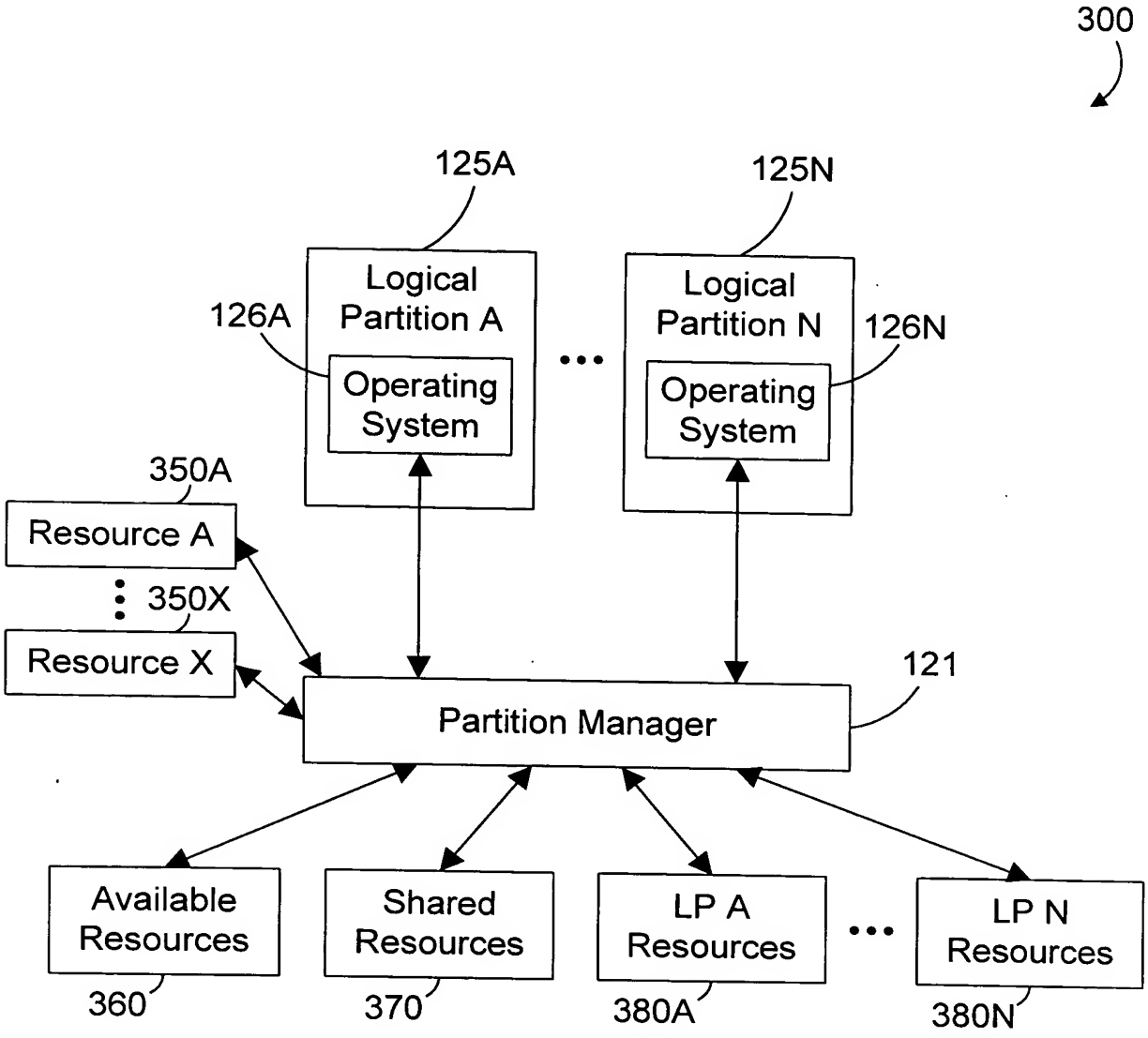
300
125A
125N
Logical Partition A
Logical Partition N
126A
126N
Operating System
Operating System
350A
Resource A
350X
Resource X
121
Partition Manager
Available Resources
Shared Resources
LP A Resources
LP N Resources
360
370
380A
380N

FIG. 3

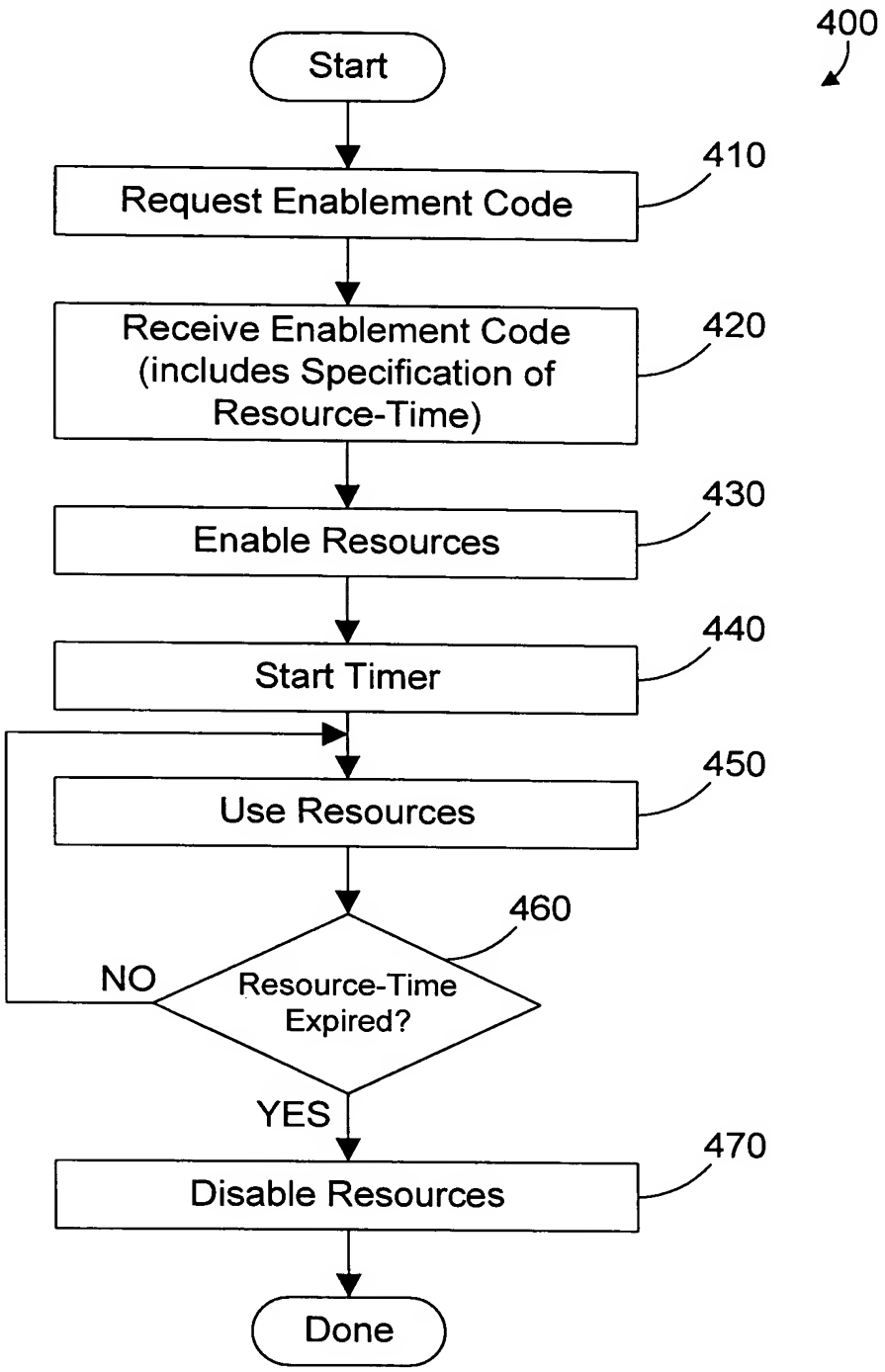
400
Start
410
Request Enablement Code
420
Receive Enablement Code (includes Specification of Resource-Time)
430
Enable Resources
440
Start Timer
450
Use Resources
460
Resource-Time Expired?
NO
YES
470
Disable Resources
Done

FIG. 4

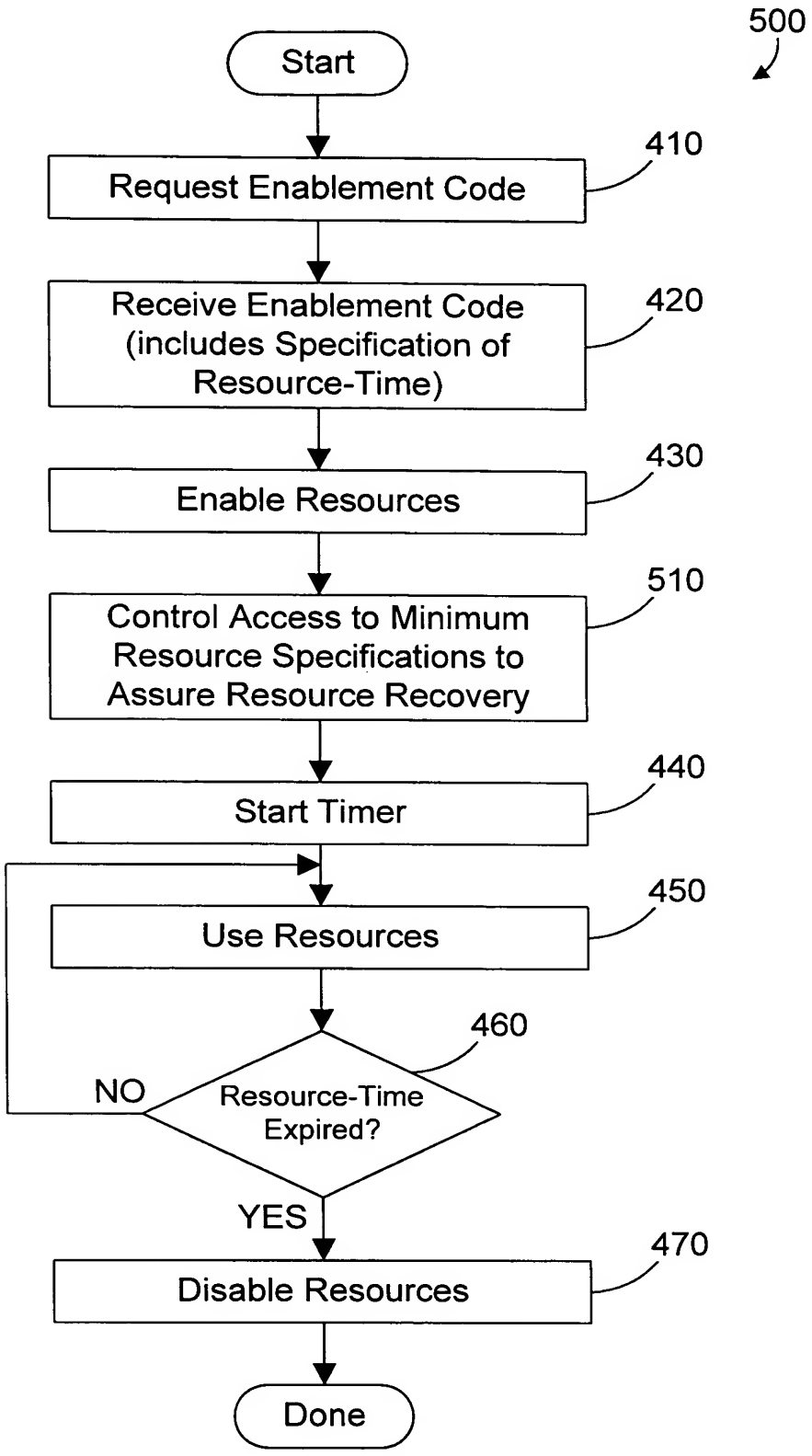
500
Start
410
Request Enablement Code
420
Receive Enablement Code (includes Specification of Resource-Time)
430
Enable Resources
510
Control Access to Minimum Resource Specifications to Assure Resource Recovery
440
Start Timer
450
Use Resources
460
Resource-Time Expired?
NO
YES
470
Disable Resources
Done

FIG. 5

Number of Allocated System Processors: 8
Number of Available System Processors: 0

Partition Identifier	Processors		
	Minimum	Current	Maximum
1	1	2	8
2	4	5	8
3	1	1	1

FIG. 6

Number of Allocated System Processors: 8
Number of Available System Processors: 8

Partition Identifier	Processors		
	Minimum	Current	Maximum
1	1	2	8
2	4	5	8
3	1	1	1

FIG. 7

Number of Allocated System Processors: 16
Number of Available System Processors: 0

Partition Identifier	Processors		
	Minimum	Current	Maximum
1	4	6	8
2	4	9	10
3	1	1	1

FIG. 8

Number of Allocated System Processors: 16
Number of Available System Processors: 0

Partition Identifier	Processors		
	Minimum	Current	Maximum
1	3	6	8
2	4	9	10
3	1	1	1

FIG. 9

Number of Allocated System Processors: 16
Number of Available System Processors: 0

Partition Identifier	Processors		
	Minimum	Current	Maximum
1	6	6	8
2	4	9	10
3	1	1	1

FIG. 10